

CHECKLIST TO DESIGNATE AREAS OF EVALUATION FOR REQUESTS FOR PROPOSAL (RFP)

MDOT PROJECT MANAGER Karl Hansen			JOB NUMBER (JN) n/a	CONTROL SECTION (CS) 17034
DESCRIPTION IF NO JN/CS Three Year IDS Contract for Structural Engineering Consulting Services for the Sault Ste. Marie International Bridge Administration				
MDOT PROJECT MANAGER: Check all items to be included in RFP. WHITE = REQUIRED GRAY SHADING = OPTIONAL			CONSULTANT: Provide only checked items below in proposal.	
Check the appropriate Tier in the box below				
<input type="checkbox"/> TIER I (\$25,000-\$99,999)	<input type="checkbox"/> TIER II (\$100,000-\$250,000)	<input checked="" type="checkbox"/> TIER III (>\$250,000)		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Understanding of Service	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Innovations</i>	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Safety Program</i>	
N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Organization Chart	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Qualifications of Team	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Past Performance	
Not required as part of official RFP	Not required as part of official RFP	<input checked="" type="checkbox"/>	Quality Assurance/Quality Control	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Location: The percentage of work performed in Michigan will be used for all selections unless the project is for on-site inspection or survey activities, then location should be scored using the distance from the consultant office to the on-site inspection or survey activity.	
N/A	N/A	<input type="checkbox"/>	Presentation	
N/A	N/A	<input type="checkbox"/>	Technical Proposal (if Presentation is required)	
3 pages (MDOT forms not counted) (No Resumes)	7 pages (MDOT forms not counted)	19 pages (MDOT forms not counted)	Total maximum pages for RFP not including key personnel resumes	

REQUEST FOR PROPOSAL

The Michigan Department of Transportation (MDOT) is seeking professional services for the project contained in the attached scope of services.

If your firm is interested in providing services, please indicate your interest by submitting a Proposal, Proposal/Bid Sheet or Bid Sheet as indicated below. The documents must be submitted in accordance with the latest "Consultant/Vendor Selection Guidelines for Service Contracts" and "Guideline for Completing a Low Bid Sheet(s)", if a low bid is involved as part of the selection process. **Referenced Guidelines are available on MDOT's website under Doing Business > Vendor/Consultant Services > Vendor/Consultant Selections.**

RFP SPECIFIC INFORMATION

☒ BUREAU OF HIGHWAYS ☐ BUREAU OF TRANSPORTATION PLANNING ** ☐ OTHER

THE SERVICE WAS POSTED ON THE ANTICIPATED QUARTERLY REQUESTS FOR PROPOSALS

☒ NO ☐ YES DATED _____ THROUGH _____

<input type="checkbox"/> Prequalified Services – See page ____ of the attached Scope of Services for required Prequalification Classifications.	<input checked="" type="checkbox"/> Non-Prequalified Services - If selected, the vendor must make sure that current financial information, including labor rates, overhead computations, and financial statements, if overhead is not audited, is on file with MDOT's Office of Commission Audits. This information must be on file for the prime vendor and all sub vendors so that the contract will not be delayed.
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☒ **Qualifications Based Selection** – Use Consultant/Vendor Selection Guidelines

For all Qualifications Based Selections, the section team will review the information submitted and will select the firm considered most qualified to perform the services based on the proposals. The selected vendor will be contacted to confirm capacity. Upon confirmation, that firm will be asked to prepare a priced proposal. Negotiations will be conducted with the firm selected.

****For RFP's that originate in Bureau of Transportation Planning only**, a priced proposal must be submitted at the same time as, but separate from, the proposal. Submit directly to the Contract Administrator/Selection Specialist, Bureau of Transportation Planning (see address list, page 2). The priced proposal must be submitted in a sealed envelope, clearly marked "**PRICE PROPOSAL.**" The vendor's name and return address **MUST** be on the front of the envelope. The priced proposal will only be opened for the highest scoring proposal. Unopened priced proposals will be returned to the unselected vendor(s). Failure to comply with this procedure may result in your priced proposal being opened erroneously by the mail room.

For a cost plus fixed fee contract, the selected vendor must have a cost accounting system to support a cost plus fixed fee contract. This type of system has a job-order cost accounting system for the recording and accumulation of costs incurred under its contracts. Each project is assigned a job number so that costs may be segregated and accumulated in the vendor's job-order accounting system.

☐ **Qualifications Review / Low Bid** - Use Consultant/Vendor Selection Guidelines. See Bid Sheet Instructions for additional information.

For Qualification Review/Low Bid selections, the selection team will review the proposals submitted and post the date of the bid opening on the MDOT website. The notification will be posted at least two business days prior to the bid opening. Only bids from vendors that meet proposal requirements will be opened. The vendor with the lowest bid will be selected. The selected vendor may be contacted to confirm capacity.

☐ **Best Value** - Use Consultant/Vendor Selection Guidelines. See Bid Sheet Instructions below for additional information. The bid amount is a component of the total proposal score, not the determining factor of the selection.

☐ **Low Bid** (no qualifications review required - no proposal required.) See Bid Sheet Instructions below for additional instructions.

BID SHEET INSTRUCTIONS

A bid sheet(s) must be submitted in accordance with the "Guideline for Completing a Low Bid Sheet(s)" (available on MDOT's website). The Bid Sheet(s) is located at the end of the Scope of Services. Submit bid sheet(s) separate from the proposal, to the address indicated below. The bid sheet(s) must be submitted in a sealed manila envelope, clearly marked "**SEALED BID.**" The vendor's name and return address **MUST** be on the front of the envelope. Failure to comply with this procedure may result in your bid being opened erroneously by the mail room and the bid being rejected from consideration.

PROPOSAL SUBMITTAL INFORMATION

REQUIRED NUMBER OF COPIES FOR PROJECT MANAGER 5	PROPOSAL/BID DUE DATE 3/11/09	TIME DUE 12:00 Noon
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PROPOSAL AND BID SHEET MAILING ADDRESSES

Mail the multiple proposal bundle to the MDOT Project Manager or Other indicated below.

☒ MDOT Project Manager ☐ MDOT Other

Karl Hansen
International Bridge Administration
934 Bridge Plaza
Sault Ste. Marie, MI 49783

Mail one additional stapled copy of the proposal to the Lansing Office indicated below.

Lansing Regular Mail	OR	Lansing Overnight Mail
<input checked="" type="checkbox"/> Secretary, Contract Services Div - B470 Michigan Department of Transportation PO Box 30050 Lansing, MI 48909		Secretary, Contract Services Div - B470 Michigan Department of Transportation 425 W. Ottawa Lansing, MI 48933
<input type="checkbox"/> Contract Administrator/Selection Specialist Bureau of Transportation Planning B470 Michigan Department of Transportation PO Box 30050 Lansing, MI 48909		Contract Administrator/Selection Specialist Bureau of Transportation Planning B470 Michigan Department of Transportation 425 W. Ottawa Lansing, MI 48933

GENERAL INFORMATION

Any questions relative to the scope of services must be submitted by e-mail to the MDOT Project Manager. Questions must be received by the Project Manager at least four (4) working days prior to the due date and time specified above. All questions and answers will be placed on the MDOT website as soon as possible after receipt of the questions, and at least three (3) days prior to the RFP due date deadline. The names of vendors submitting questions will not be disclosed.

MDOT is an equal opportunity employer and MDOT DBE firms are encouraged to apply. The participating DBE firm, as currently certified by MDOT's Office of Equal Opportunity, shall be listed in the Proposal

MDOT FORMS REQUIRED AS PART OF PROPOSAL SUBMISSION

5100D – Request for Proposal Cover Sheet
5100G – Certification of Availability of Key Personnel
5100I – Conflict of Interest Statement

(These forms are not included in the proposal maximum page count.)

**Michigan Department of Transportation
Sault Ste. Marie International Bridge Administration**

**SCOPE OF SERVICE
FOR
DESIGN SERVICES
Structural Engineering Services**

CONTROL SECTION: 17034

JOB NUMBER: N/A

PROJECT LOCATION: International Bridge

DESCRIPTION OF WORK:

The selected firm will be expected to perform various services for the International Bridge Administration (IBA) over the next three years. The services will include but not be limited to structural engineering services including inspections, structural designs, emergency repair consultation details, generating studies and reports.

The services will be overseen by a licensed professional engineer (PE) in the State of Michigan and with a licensed professional engineer (P. Eng) in the Province of Ontario for all services provided on portions of the bridge within the Province of Ontario.

The International Bridge connects Northern Ontario to Northern Michigan and is the only International border crossing between Canada and the United States for a distance of 600 miles. The International Bridge is a multi-span structure including a four-span continuous truss of arch form and a three-span continuous truss of arch form. The structure has great significance to the State of Michigan and the Province of Ontario and it is of significant economic importance to the United States and Canada.

The IBA is an administrative entity within MDOT responsible to operate and maintain the entire structure on behalf of MDOT and the St. Mary's River Bridge Company, which are the Michigan and Canadian owners of the bridge structure and assets.

The structural engineering needs of the bridge are continual and range from periodic regularly scheduled inspections to unanticipated emergency repairs.

The term of this selection will be for three years following the start of the service.

ANTICIPATED START DATE: May 25, 2009

ANTICIPATED COMPLETION DATE: May 25, 2012

PRIMARY PREQUALIFICATION CLASSIFICATION(S):

None

SECONDARY PREQUALIFICATION CLASSIFICATION(S):

None

DBE REQUIREMENT: N/A

MDOT PROJECT MANAGER:

Karl Hansen
International Bridge Administration
934 Bridge Plaza
Sault Ste. Marie, MI 49783
(906) 635-5255 ext. 135

CONSULTANT QUALIFICATION REQUIREMENTS:

In order to be considered, the consulting firms must provide information in their proposals that show that they can meet the following requirements as well as perform the specific inspections and projects that are detailed further in this RFP.

A consultant engineering firm will be selected based on the criteria in the Vendor Guidelines with emphasis on the following criteria. Firms with staff showing experience and expertise levels higher than the minimum criteria will receive higher ratings.

- The firm must possess at least 5 years of structural engineering experience with bridge structures similar in proportion, design and age to the International Bridge. The experience must include inspections, design, engineering reports, studies, and construction engineering and field construction support.
- The firm's staff must include qualified bridge inspectors, draftsmen, professional structural engineers and technical writers with first hand knowledge and multiple years of experience with bridges of this stature. The consultant must show how their existing staff and expertise will meet the requirements of this contract.
- The consultant's project manager must be a licensed professional in Michigan with extensive structural engineering skills and have at least 15 years of experience with arch bridges of a similar age and design.
- The project manager shall lead an organized team of engineers having, between them, (or ability to obtain) professional engineer licenses in Michigan and Ontario. The team shall include qualified bridge inspectors having experience inspection this type of structure, and between them, meeting the requirements of the FHWA's National Bridge Inspection Standards and the Ontario Structural Inspection Manual. The team shall ensure that all applicable Michigan, Ontario, AASHTO, FHWA, and Canadian engineering codes, regulations, and specifications are met during all services provided. **The consultant shall describe how the team will be structured to meet the above requirements.**

- The consultant must show the safety measures that they will be taking and the level of staff safety experience, training and certifications that are maintained in order to perform the type of inspection work required which includes working in the open several hundred feet above the water.

The firm must be eligible to work in the State of Michigan as an engineering firm in accordance with Article 20 of the occupational Code, P.A. 299 of 1980, as amended: Sec. 2010. (1) a firm may engage in the practice of architecture, professional engineering, or professional surveying in this state, if not less than 2/3 of the principals of the firm are licensees.

Anticipated Projects, Scheduled Inspections and Assignments:

The following is a partial list of projects, inspections and assignments that may be required of the consultant over the length of the selection and a brief description of the work. Actual detailed Scope of Services will be developed for each project authorization. No work shall commence on any service until it is authorized. These examples are intended to show the high level of engineering expertise required of the consultant and the complexity of the projects. Consulting firms must show that they have the experience and ability to perform the work involved in each and all of these projects.

Annual and Fracture Critical Inspection:

The Scope of Work includes performing Annual Inspections on the International Bridge in 2009, 2010 and 2011, and a Fracture Critical Inspection on the International Bridge in 2009 and 2011. These Inspections shall be performed in accordance with the requirements of the National Bridge Inspection Standards (NBIS) and the Ontario Structural Inspection Manual. The inspection procedures shall be in accordance with the latest AASHTO Manual for Condition Evaluation of Bridges including amendments and interim specifications, the Federal Highway Administration Bridge Inspectors' Training Manual, and the FHWA's Manual for "Inspection of Fracture Critical Bridge Members", report No. FHWA-IP-86-26, and the Ontario Structural Inspection Manual.

The Annual inspections shall be intermediate level type inspections and will include the substructure, roadway and other items. Annual inspections shall consist of sufficient observations and/or measurements to determine the physical and functional conditions of the bridge. Observations of the bridge are compared to previously recorded conditions to identify any developing problems and/or change from previously noted conditions and to ensure that the structure continues to satisfy the present and long term service requirements. During the fracture critical inspection, fracture critical members shall be identified and they shall receive additional, detailed, hands on inspection as required by the FHWA's National Bridge Inspection Standards.

Review of Computations and Drawings Related to International Bridge Projects:

In connection with work done on the bridge by others, such as painting or paving contracts, the Consulting Firm will review the plans for such work to determine the compatibility of any proposed false work or temporary equipment with the bridge. Work performed by contractors must not damage the structural condition of the bridge or

impede the flow of traffic and must be performed in a way that is safe for the traveling public. This review may involve analyzing equipment placements, scaffolding designs, tarp configurations, temporary connection details, and/or traffic staging.

Structural Designs and Details:

The consulting firm must have the expertise to competently design repair details for any structural member that exists on the bridge. Repair details in some cases could be minor in nature, or could, as in the case of removal and replacement of a truss member, involve the careful sequencing of installation steps to allow for proper unloading, temporary support and reloading in order to avoid locking in any unwanted stresses in any of the truss members. Preparation of design details in this case would involve temporary support considerations as well as traffic loading schemes so that optimum conditions for making the field connections are present at the time of repair. All repair details must take into consideration the requirements of traffic, the space limitations for work and lifting equipment, and the practicality of assembly methods that will be performed at height.

Attendance at Meetings:

Occasionally it may be necessary for the consultant to attend meetings of the International Bridge Administration, pre-bid meetings, construction progress meetings, and/or conferences at the bridge site or elsewhere upon request of the IBA. This would be for the purposes of sharing information about the condition of the bridge and reporting on the results of any studies or research the firm may be doing in relationship to upcoming projects.

Emergency Response:

The consulting firm must respond to emergency situations. This could involve travel to the site to assess structural damage and the immediate design of repair details. Twenty-four hour emergency response availability for phone calls will be expected of the consulting firm.

3 D Computer Structural Model:

The consulting firm must have the ability to create and competently use a 3D computer structural analysis model of the International Bridge in order to assess loading conditions and recommend load placements during various International Bridge Administration projects and general maintenance tasks. The 3D model will be used to predict bridge stresses and movements under known loading conditions. (including dead, live, temperature, and wind loading).

Insurance Requirements:

The International Bridge Administration will require the selected firm to maintain professional liability insurance, in an amount not less than One Million Dollars (\$1,000,000) per claim, for protection from claims arising out of services under the contract that will be issued from this Request for Proposal.

In addition:

The selected firm will be required to list the Michigan Department of Transportation (MDOT), International Bridge Administration (IBA), St. Mary's River Bridge Company (SMRBC), the State of Michigan, the Michigan State Transportation Commission, the Federal Highway Administration (FHWA), and The Federal Bridge Corporation Limited (FBCL) as additional insured on their general liability policy; and/or provide MDOT, IBA, SMRBC, the State of Michigan, the Michigan State Transportation Commission, FHWA, and FBCL with an Owner's Protective Public Liability Insurance policy in an amount not less than One Million Dollars (\$1,000,000), including both the United States and Canada as the liability insurance territory; and/or, upon approval of IBA, provide another form of liability protection insurance for all parties that will afford equal protection as those previously listed.

International Security Issues:

The project requires consultants to work both in Canada and the United States. Consultants must take such steps as are necessary to assure that they can fulfill the terms of the contract under the laws of the United States, Michigan, Canada, and Ontario. The obligation to perform such work under the appropriate and applicable laws is the obligation of the consultant. This includes but is not limited to licensing, immigration (including Western Hemisphere Transportation Initiative requirements), bonding, and insurance.

Bridge Protective Measures:

The selected consultant shall comply with the requirements for bridge protective measures set forth in Exhibit 1 which is attached to this scope of work and which will become part of the contract with the selected consultant.

Miscellaneous:

Other engineering services as requested by the International Bridge Administration. These are undetermined at this time, but would be defined as separate projects as needs arise.

Consultant Payment:

All invoices/bills for services must be directed to the Department and follow the "then current" guidelines. The latest copy of the "Reimbursement Guidelines" is available on MDOT's web site under Vendor/Consultant Contracts. This document contains instructions and forms that must be followed and used for invoicing/billing; payment may be delayed or decreased if the instructions are not followed.

Payment to the Vendor for services rendered will be defined on each individual authorization. Reimbursement options will be "Cost Plus Fixed Fee Not to Exceed Maximum Amount" or as "Lump Sum" basis to be reimbursed upon the accomplishment of defined milestones, or as a "Unit Price" per unit of work basis. All invoices/bills must be submitted within 14 calendar days of the last date of services being performed for that invoice.

For “cost plus fixed fee not to exceed maximum amount” authorizations, direct expenses will not be paid in excess of that allowed by the Department for its own employees in accordance with the State of Michigan’s Standardized Travel Regulations. Supporting documentation must be submitted, with the invoice/bill, for all billable expenses on the Project.

The use of overtime hours is not acceptable unless prior written approval is granted by the MBA Administrator and the IBA Project Engineer Manager. Reimbursement for overtime hours that are allowed will be limited to time spent on the service in excess of forty hours per week. Any variations to this rule should be included in the price proposal submitted by the Consultant and must have prior written approval by the IBA Administrator and the MBA Project Engineer Manager.

The fixed fee for profit allowed for this project is 11.0% of the cost of direct labor and overhead.

EXHIBIT 1

INTERNATIONAL BRIDGE PROTECTIVE MEASURES

The following provisions address the intention to safeguard the International Bridge.

It is expected the CONSULTANT will disclose in writing the provisions described below to its SUBCONSULTANT(S) and all prospective employees before the CONSULTANT presents any individual employee to the IBA as their personnel authorized to work on this Michigan Department of Transportation (MDOT) CONTRACT.

The CONSULTANT and all personnel performing the work will be expected to fully comply with all provisions.

A. CONFIDENTIALITY PROVISIONS

The CONSULTANT agrees that all information related to any work performed under this CONTRACT authorization, including, but not limited to, copies of plans, reports and/or other documents used or generated related to the work performed, is confidential. Any information provided by the International Bridge Authority (IBA) or obtained by the CONSULTANT or its SUBCONSULTANT(S) relating to the work to be performed shall not be reproduced or distributed to any individuals without the express written approval of the International Bridge Authority Engineer (ENGINEER). The CONSULTANT agrees to maintain all information related to this project as confidential except any information that is required to be disclosed by court order.

Structural information concerning the International Bridge is exempt from disclosure under the Michigan Freedom of Information Act (FOIA) Act 442 of 1976, (15.2 MCL). Section 13 of the Act specifically exempts from disclosure information relating to bridges or documents related to the bridges as they are "public works" and "[r]ecords or information of measures designed to protect the security or safety of persons or property." Other exemptions may be applicable as well.

All original plans and/or documents related to any and all project work done under this authorization that is hereafter part of this Contract and all copies thereof shall be returned to the IBA when the projects are completed. The CONSULTANT agrees that all original plans and documents related to the projects and all copies thereof belong to the IBA. The CONSULTANT further agrees that it will not make copies of any plans or documents related to the projects without the prior written consent of the ENGINEER. All documents prepared by the CONSULTANT including tracings, drawings, estimates, specifications, field notes, investigative studies, and other relevant documents, are the property of the IBA and will not be furnished to any other party without the prior written permission of the ENGINEER.

The CONSULTANT agrees that if the CONSULTANT or its SUBCONSULTANT(S) violates the confidentiality provisions of this authorization the CONSULTANT will be financially responsible for consequential damages, including, but not limited to, the costs associated with

assessing the potential threat and providing additional security systems to the International Bridge.

A violation of these CONFIDENTIALITY PROVISIONS shall be considered a breach of this authorization and this Contract. MDOT may, in its sole discretion, terminate this authorization and the Contract for any breach of these CONFIDENTIALITY PROVISIONS.

B. EQUIPMENT INSPECTION PROVISIONS

The ENGINEER may refuse to allow the CONSULTANT or its SUBCONSULTANT to use equipment brought to the International Bridge due to security concerns. Equipment brought to the International Bridge for use by the CONSULTANT or its SUBCONSULTANT(S) will be made available and subject to inspection by the ENGINEER or a duly designated inspection agent prior to its use or at any time while onsite.

A violation of this EQUIPMENT INSPECTION PROVISION shall be considered a breach of this authorization and this Contract. MDOT may, in its sole discretion, terminate this authorization and the Contract if the EQUIPMENT INSPECTION PROVISIONS are not met by the CONSULTANT or its SUBCONSULTANT(S).

C. PERSONNEL SPECIAL SECURITY PROVISIONS

The CONSULTANT agrees to initially submit a complete list to the ENGINEER at the pre-inspection meeting that identifies all personnel and their SUBCONSULTANT(S) personnel that will have access to the bridge documents discussed above and any information that is produced as a result of the work that they will perform. The list shall include, at a minimum, each identified person's full name, driver's license or identification number, social security number, place and date of birth. A current photograph from a valid identification document must also be provided for each person identified on the list. The list with accompanied photograph shall be updated if personnel are added or dropped from the workforce.

The CONSULTANT shall also provide, at or before the pre-inspection meeting, signed disclosure forms, criminal background checks of all personnel that they indicate will perform work at any time under this contract authorization.

Requests for such additional background checks may be initiated by the ENGINEER at any time. The CONSULTANT expressly recognizes and agrees to cooperate, if the ENGINEER, in its sole discretion, desires to conduct an investigation concerning the eligibility of any personnel identified to perform work on this project. Such investigations may include Michigan State Police Background checks (ICHAT OR LEIN) and may include the National Crime Information Center (NCIC) Finger Prints. The personnel that are identified and listed may be required to complete and submit an RI-8 Fingerprint Card for the NCIC Finger Print Checks. Any personnel, if requested, that refuses or fails to submit an RI-8 Fingerprint Card for the NCIC Finger Print Checks must be replaced with personnel acceptable to the ENGINEER.

Only personnel with satisfactory criminal background checks that are acceptable to the ENGINEER will be authorized to perform work under this contract authorization. The identity of all personnel working at the bridge will be subject to verification by the ENGINEER or a duly designated verification agent at the start of each workday. Off-site personnel are subject to verification by the ENGINEER or a duly designated verification agent at any time. Personnel that are not verified will not be permitted access to the bridge or the documents discussed above.

The CONSULTANT remains fully responsible for providing employees that will be able to obtain and maintain acceptable security checks and achieve verification that satisfy the IBA. The CONSULTANT shall not be entitled to extensions of time while suitable replacements are obtained.

A violation of these PERSONNEL SPECIAL SECURITY PROVISIONS shall be considered a breach of this authorization and this Contract. MDOT/IBA may, in its sole discretion, terminate this authorization and the Contract for any breach of these PERSONNEL SPECIAL SECURITY PROVISIONS.

D. STATE OF MICHIGAN'S IT POLICY PROVISION

All personnel employed by the CONSULTANT and its SUBCONSULTANT(S) must agree to and comply with the State of Michigan's IT resource acceptable use policy if accepted as personnel authorized to work on this Contract.

A violation of these STATE OF MICHIGAN'S IT POLICY PROVISION shall be considered a breach of this authorization and this Contract. MDOT may, in its sole discretion, terminate this authorization and the Contract for any breach of these STATE OF MICHIGAN'S IT POLICY PROVISION.